EXHIBIT 3



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/959,700	10/05/2004	Masakazu Suzuoki	SCEI 3.5 070	. 3203
530 LERNER, DA	530 7590 06/01/2007 LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST		EXAM	INER
KRUMHOLZ			CHANG, ERIC	
WESTFIELD,			ART UNIT	PAPER NUMBER
		•	2116	
•			·	
		•	MAIL DATE	DELIVERY MODE
	•	• 4	06/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)
Office Action Summer		10/959,700	SUZUOKI ET AL.
	Office Action Summary	Examiner	Art Unit .
		Eric Chang	2116
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	e correspondence address
WHIC - Exte after - If NC - Fallu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 38(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fm, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status			1
1)⊠	Responsive to communication(s) filed on 05 M	larch 2007.	
2a)⊠		action is non-final.	
3)[Since this application is in condition for allowar	nce except for formal matters, p	prosecution as to the merits is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.
Dispositi	ion of Claims		
4)⊠	Claim(s) 1,3-7,9-14,16-23,25-30 and 32-34 is/a	are pending in the application.	•
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	·
·	Claim(s) is/are allowed.		•
	Claim(s) <u>1,3-7,9-14,16-23,25-30 and 32-34</u> is/a	are rejected.	
	Claim(s) is/are objected to.	·	
8)	Claim(s) are subject to restriction and/o	r election requirement.	
Applicati	ion Papers		
9)□	The specification is objected to by the Examine	er.	
10)	The drawing(s) filed on is/are: a) acceptable	epted or b) objected to by the	e Examiner.
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the correct		
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	ce Action or form PTO-152.
Priority u	under 35 U.S.C. § 119	•	•
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).
_	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority documents	s have been received.	
	2. Certified copies of the priority documents	s have been received in Applica	ation No
	3. Copies of the certified copies of the prior	rity documents have been rece	ived in this National Stage
	application from the International Bureau		
· • S	See the attached detailed Office action for a list	of the certified copies not recei	ved.
	•		
Attachmen	• •	_	
	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa	
	nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail 5) Notice of Informa	
	r No(s)/Mail Date <u>1-16-07</u> .	6) Other:	

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DETAILED ACTION

1. Claims 1, 3-7, 9-14, 16-23, 25-30 and 32-34 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 3. Claims 1, 3-7, 9-14, 16-23, 25-30 and 32-34 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 7,096,145 to Orenstien et al.
- 4. As to claim 1, Orenstien discloses a method for performing power management, the method comprising the steps of: monitoring a rate of execution of instructions by a processor [col. 3, lines 32-37]; and estimating a power consumption rate as a function of the monitored instruction execution rate so that processing by the processor is controllable according to the power consumption rate [col. 3, lines 32-37]; wherein the rate of execution is monitored based on a rate of fetching instructions for execution, wherein the instructions include instructions having different types [col. 3, lines 44-57].

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5. As to claim 3, Orenstien discloses the estimating step estimates a heat level for the processor as a function of instruction count values for each of the different types of instruction being executed [col. 2, lines 17-32].

- 6. As to claims 4-5, Orenstien discloses the different types of instructions include a floating point instruction [col. 3, lines 44-57]. Other instructions well known in the art comprise an integer instruction, a vector floating point instruction, a vector integer instruction, a scalar floating point instruction and a scalar integer instruction.
- 7. As to claim 6, Orenstien discloses the estimating estimates a heat level for the processor [col. 2, lines 17-32].
- 8. As to claim 7, Orenstien discloses a method for performing power management, the method comprising the steps of: determining power information based on a rate of execution of instructions by a first processor [col. 3, lines 32-37]; and estimating a rate of power consumption as a function of the determined power information so that processing by the processor is controllable according to the power consumption rate [col. 3, lines 32-37]; wherein the instructions are of different types, and the power information is determined by counting the number of each of the respective types of instructions being executed by the first processor [col. 3, lines 44-57].

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9. As to claims 9-10, Orenstien discloses the different types of instructions include a floating point instruction [col. 3, lines 44-57]. Other instructions well known in the art comprise an integer instruction, a vector floating point instruction, a vector integer instruction, a scalar floating point instruction and a scalar integer instruction.

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- 10. As to claim 11, Orenstien discloses sending the power information to a second processor[108], wherein the estimating is performed by the second processor.
- 11. As to claim 12, Orenstien discloses the second processor controls the first processor to reduce energy usage if the estimated energy usage is above a predefined level [col. 2, lines 32-40].
- 12. As to claim 13, Orenstien discloses the second processor puts the first processor into an idle state [col. 3, lines 1-3].
- 13. As to claim 14, Orenstien discloses apparatus performing power management, the apparatus comprising: a first processor [102]; and a monitoring circuit [108] operable to generate power information based on a rate of execution of instructions by the first processor [col. 3, lines 32-37]; wherein the rate of execution is represented by a rate of fetching instructions for execution, the instructions include instructions having different types and the power information includes counts of each of the different types of instructions being fetched for execution [col. 3, lines 44-57].

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- 14. As to claims 16-17, Orenstien discloses the different types of instructions include a floating point instruction [col. 3, lines 44-57]. Other instructions well known in the art comprise an integer instruction, a vector floating point instruction, a vector integer instruction, a scalar floating point instruction and a scalar integer instruction.
- 15. As to claim 18, Orenstien discloses the monitoring circuit includes counters [118, 120,122] for maintaining the counts of each of the different types of instructions.
- 16. As to claim 19, Orenstien discloses the first processor is operable to send the power information to a second processor [108], and the second processor is operable to estimate a rate of power consumption by the first processor [col. 3, lines 32-37].
- 17. As to claim 20, Orenstien discloses the second processor is operable to estimate a heat level corresponding to the estimated rate of power consumption [col. 2, lines 17-32].
- 18. As to claim 21, Orenstien discloses a processing element for performing power management, the processing element comprising: a first processing unit [108]; a number of attached processing units [col. 3, lines 32-37], at least one attached processing unit having a monitoring circuit [108] operable to accumulate power information related to a rate at which instructions are executed therein [col. 3, lines 32-37]; wherein the at least one attached processing unit is operable to send the accumulated power information to the first processing

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unit, and the first processing unit is operable to determine a rate of power consumption from the accumulated power information [col. 3, lines 32-37]; wherein the instructions include instructions having different types, and wherein the accumulated power information includes data representing counts for how many instructions of the different types of instructions have been executed [col. 3, lines 44-57].

- 19. As to claim 22, Orenstien discloses the first processing unit is operable to reduce an energy usage of the at least one attached processing unit if the determined power consumption for that attached processing unit is above a predefined value [col. 2, lines 32-40].
- 20. As to claim 23, Orenstien discloses the first processing unit is operable to reduce an energy usage of that attached processing unit by causing that attached processing unit to enter an idle state [col. 3, lines 1-3].
- 21. As to claims 25-26, Orenstien discloses the different types of instructions include a floating point instruction [col. 3, lines 44-57]. Other instructions well known in the art comprise an integer instruction, a vector floating point instruction, a vector integer instruction, a scalar floating point instruction and a scalar integer instruction.
- 22. As to claim 27, Orenstien discloses the first processing unit is operable to estimate a heat level corresponding to the determined rate of power consumption [col. 2, lines 17-32].

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- 23. As to claim 28, Orenstien discloses a processing environment comprising: a first processing unit [108]; a number of additional processing units [col. 3, lines 32-37] each having a monitoring circuit [118, 120, 122] operable to generate power information based on a rate at which instructions are executed by the respective additional processing unit [col. 3, lines 32-37]; wherein the additional processing units are operable to send power information to the first processing unit, the first processing unit being operable to monitor a rate of power consumption of the additional processing units based on the sent power information [col. 3, lines 32-37]; wherein the instructions include instructions having different types and the accumulated power information includes data representing counts of each of the different types of instructions that are executed [col. 3, lines 44-57].
- 24. As to claim 29, Orenstien discloses the first processing unit reduces the rate of power consumption of at least one of the attached processing units when the rate of power consumption is above a predefined value [col. 2, lines 32-40].
- 25. As to claim 30, Orenstien discloses the first processing unit reduces the power consumption of the at least one attached processing unit by causing that attached processing unit to enter an idle state [col. 3, lines 1-3].
- 26. As to claims 32-33, Orenstien discloses the different types of instructions include a floating point instruction [col. 3, lines 44-57]. Other instructions well known in the art comprise

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an integer instruction, a vector floating point instruction, a vector integer instruction, a scalar floating point instruction and a scalar integer instruction.

27. As to claim 34, Orenstien discloses the first processing unit further estimates a heat level based on the monitored rate of power consumption [col. 2, lines 17-32].

Response to Arguments

28. Applicant's arguments with respect to claims 1, 3-7, 9-14, 16-23, 25-30 and 32-34 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

29. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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30. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Chang whose telephone number is (571) 272-3671. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on (571) 272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Approved for use through 03/31/2007. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

SCEI 3.0-070

Under the Paperwork Reduction Act of 1995, no persons are req Complete If Known Substitute for form 1449/PTO 10/959,700-Conf. #3203 Application Number INFORMATION DISCLOSURE Filing Date October 5, 2004 STATEMENT BY APPLICANT Masakazu Suzuoki First Named Inventor Art Unit 2116 (Use as many sheets as necessary) T. C. Lee Examiner Name

Attorney Docket Number

U.S. PATENT DOCUMENTS					
Examiner initials*	Cite No.1	Document Number Number-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/EC/	AA*	US-4,622,631	11-11-1986	Frank et al.	

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FOREIGN PATENT DOCUMENTS						
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	
initials* No.	Country Code ³ -Number ⁴ -Kind Code ⁴ (If known)	MM-DD-YYYY	Applicant of Ollard Decument	or Relevant Figures Appear		

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant." CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. 'Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Petent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁹ Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS .	
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner / Calle Observed	Date ·	05/20/2007
		05/29/2007
Signature /EIIC Chang/	Considered	00/20/2001
724604		

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Application/Control No. Applicant(s)/Patent Under Reexamination 10/959,700 SUZUOKI ET AL. Notice of References Cited Examiner Art Unit Page 1 of 1 **Eric Chang** 2116 **U.S. PATENT DOCUMENTS Document Number** Date Name Classification Country Code-Number-Kind Code MM-YYYY US-7,096,145 B2 08-2006 Orenstien et al. 702/132 US-6,976,178 B1 В 12-2005 Kissell, Kevin D. 713/300 US-C US-D US-Ε US-F US-G USн US-1 US-USĸ US-US-М FOREIGN PATENT DOCUMENTS **Document Number** Date Country Name Country Code-Number-Kind Code MM-YYYY Classification N 0 Р Q R s **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) U ٧ W

"A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

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Notice of References Cited

Part of Paper No. 20070529